

192 22 RR RHEOAAA RUCRJCS RUEFHQ RUHHABA RUKLAAA RUVRRIA 1970 MAR 3 DE RUEADJU 0005 0622150 ZNY SSSSS R Ø32117Z MAR 7Ø FM NPIC WASHDC TO RHCOAAA/SAC OFFUITT AFB. OMAHA NEBRASKA OFFICE RHCOAAA/544TH ARTW, OFFUITT AFB, OMAHA WEBRASKA RUNHABA/548TH RTG, HICKAN AFB, HAWAII CABLE SEC. RUKLAAA/480TH RTG, LANGLEY AFB, VIRGINIA FPAB/RD SECUR, TSSG/A RUCRJCS/DIAXX-2 RUEFHQA/HQ USAF RUVRRIA/WARNER ROBINS AFB, GEORGIA BT PSG/OC SECRET CITE NPIC 8095 RRD WARNER ROBINS AFB FOR WRAMA/WRNWA; HQ USAF FOR AFIGOS, AFXOTR, REPRO AFRICAD, AFRDRM; SAC FOR DIRI, DOSR, DISD AID SUBJECT: EVALUATION OF GIANT NAIL MISSIONS T-145, T-146, T-148, TEG T-151, T-152, T-153, T-154 AND T-155. IEG/OD 1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY OF THESE MISSIONS SCIEN WITH THE EXCEPTION OF MSN T-152 IS FAIR WITH INSTANCES OF GOOD IMMEST ERY. THE MAJOR DEGRADING FACTOR APPEARS TO BE IMAGE MOTION CAUSED THE VEHICLE VIBRATION. IN ADDITION, INSTANCES OF SCAN DIRECTION IMAGE MAS SMEAR WERE NOTED. THESE DEGRADATIONS ARE MOST APPARENT AT MAGNIFITEG/PHD CATIONS OF 25X AND ABOVE. THE INTERPRETATION SUITABILITY OF THESEIAS PAGE 2 RUEADJU 8885 S E C R E T MISSIONS WITH THE EXCEPTION OF T-152 AND T-155 IS 600B. THE INTERCACE-TATION SUITABILITY OF T-155 IS FAIR, DUE TO THE LOW CONTRAST AND THIN DENSITY OF THE ORIGINAL NEGATIVE (SEE PARA 6B). THE IMAGE QUALITY OF T-152 IS GOOD THROUGHOUT THE MISSION WITH INSTANCES OF EXCELLENT IMAGERY. MAGNIFICATIONS OF UP TO 50X ARE POSSIBLE. THE INTERPRETARYBURGE CY SUITABILITY IS GOOD TO EXCELLENT. IT SHOULD BE NOTED THAT MISSIO SANITIZED T-152 USED A WRATTEN 23A FILTER. ALL OTHER MISSIONS USED A WRATTEN 15. MISSION DATA SUMMARY MISSION DATE FLOWN CAMERA NO A/C NO T/O TIME Z C/O TIME Z **Ø3Ø**3 346 8180 7 DEC 69 8912 T-145 6346 Ø547 340 T-147 12 DEC 69 8012 13 DEC 69 8010 349 0215 0414 T-148 31 DEC 69 8615 349 Ø424 Ø627 T-151 9995 6 JAN 79 9259 T-152 8612 340 @139 2340 9 JAN 70 340 T-153 8010 #352 **Ø**552 334 T-154 15 JAN 70 8912 Ø13Ø **#331** 18 JAN 70 334 T-155 8012 WRATTEN CAMERA TITLED PROCESS MISSION CHEM/GAMMA FILTER MALFUNCTION PROPERLY FAC/RTG NO YES UNK 15 UNK T-145 PAGE 3 RUEADJU 0005 S E C R E T 15 YES 548TH MX578/2.57 T-147 15 YES MX578/2.50 548TH T-148 YES 548TH 15 TØ151 MX578/2.58 YES 548TH 23A MO T-152 MX578/2.59 YES NO 15 T-153 MX578/2.44 548TH YES 15 NO 548TH

12RTS

NO

T-154

T-155

MX578/2.49

G-4 / 1.44

MISSION	TOTAL	PERGENT	IMAGE	PI
	FRAMES	CLOUD	QUALITY	INTERP
		COVER		
T-145	1315	10	ENIR	GOOD
T-147	912	10	Falls	600 D
T-148	916	35	FATR	600 D
T-151	1386	15	FAIR	6000
T-152	1824	10	600B	EXELLENT
T-153	988	85	FAIR S	(663)
T-154	65#	65	FAIR	A DOD
T-155	857	40	FAIR	FAIR
	TONS HEED		,	

A. FILM TYPE 3484

B. EXPOSURE - AUTOMATIC EXPOSURE CONTROL

PAGE 4 RUEADJU 9895 S E C RE T

C. STEREO COVERAGE MODE.

3. ORIGINAL NEGATIVE

A. EXPOSURE: ALL MISSIONS, EXCEPT T-155 WERE SLIGHTLY OVEREXPOSED BY APPROXIMATELY 0.1 LOG EXPOSURE.

B. DENSITY AND CONTRAST: ON ALL MISSIONS EXCEPT T-155 THE DENSITY IS SLIGHTLY HEAVY AND THE CONTRAST IS HIGH. SEE PARA 6B FOR MISSION T-155 COMMENTS.

C. IMAGED DEGRADATIONS: A CAMERA MALFUNCTION OCCURRED AT LEAST TWENTY-FIVE TIMES ON MISSIONS T-147, T-148, T-151 AND T-153. EACH TIME THE MALFUNCTION OCCURS TWO FRAMES ARE AFFECTED. THE IMAGE QUALITY OF THESE FRAMES IS NOT DEGRADED EXCEPT AT THE ENDS OF THE FRAME WHERE OVERLAPPING MAY OCCUR. A DETAILED DESCRIPTION OF THIS MALFUNCTION IS REPORTED IN THE EVALUATION OF MISSION T-138, NPIC MESSAGE 7552, 8 DEC 69.

D. LIGHT LEAKS:

(1) MINOR PLUS DENSITY FOG PATTERNS, TYPICAL OF THIS SYSTEM, ARE PRESENT ON ALL MISSIONS. THESE FOG PATTERNS DO NOT AFFECT THE OVERALL QUALITY OF THE MISSIONS.

(2) A LIGHT LEAK AROUND A SPOOL FLANGE CAUSED A BLOCK OF FOG FOR APPROXIMATELY TEN WRAPS ON MISSION T-154.

PAGE 5 RUEADJU 0005 S E C R E T

(3) NUMEROUS PROCESSING STAINS WERE NOTED ON MISSION

(4) CAMERA START+UP AND SHUT-DOWN ASSOCIATED FOG PATTERNS WERE NOTED ON EACH MISSION.

4. PHYSICAL DEGRADATIONS: NUMEROUS SCRATCHES AND HANDLING MARKS ARE APPARENT ON ALL MISSIONS. ULTRASONIC SPLICES ARE LOCATED ON: MISSION FRAME

T-148 486
T-151 674
T-152 432
T-153 718
T-155 262

T-145.

5. BATA RECORDING EQUIPMENT: FUNCTIONED PROPERLY ON ALL MISSIONS EXCEPT DURING THE CAMERA MALFUNCTION. THE WRITE-IN CARD ON ALL MISSIONS IS OVEREXPOSED AND IS DIFFICULT TO READ.



6. OTHER:

A. THE FILM WAS PROPERLY TITLED EXCEPT ON THOSE MISSIONS WHERE A CAMERA MALFUNCTION OCCURRED, AFTER THE INITIAL MALFUNCTION ON EACH MISSION, THE REMAINDER OF THE MISSION IS NOT TITLED IN ACCORDANCE WITH ESTABLISHED TITLING PROCEDURES.

PAGE 6 RUEADJU 6665 S E C R E T THE MALFUNCTION IS NOT OF A NATURE THAT WOULD WARRANT THE DISCONTINUATION OF PROPER TITLING PROCEDURES.

B. MISSION T-155 WAS PROCESSED BY THE 12TH RTS IN G-4 CHEMISTRY, A LOW GAMMA DEVELOPER. THE MATERIAL WAS UNDEREXPOSED FOR THIS FILM/DEVELOPER COMBINATION, AS WAS EVIDENCED BY THE 0.20 D/MIN AND 0.50 D/MAX AND THE SLOWER EFFECTIVE FILM SPEED, AEI, OF 2.34. THE DENISTY AND CONTRAST WERE BOTH VERY LOW. 7. POSITIVES: ADEQUATE FOR INTERPRETATION PURPOSES.

GP-1 BT

SECRET

//E0 M//